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ACRIDONE DERIVATIVE

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ABSTRACT

PURPOSE: To provide a new acridone derivative useful as an intermediate for the easy and safe synthesis of a pyrazoloacridone derivative having excellent antitumor activity.

CONSTITUTION: This acridone derivative expressed by the formula V (X is H or halogen; Y(sup 1) is H; Y(sup 2) is O or hydroxyimino; Y(sup 1) and Y(sup 2) may together form N) is produced by reacting a hydroquinone compound of the formula I (R(sup 3) is lower alkyl) with an acetophenone compound of the formula II (Z is H, halogen, amino, etc.) to obtain a quinone derivative of the formula III, reducing the derivative, protecting the hydroxyl group and the amino group of the product with a carbonylation reagent, alkylating another hydroxyl group, removing the protecting groups, alkylating the freed hydroxyl groups to obtain a compound of the formula IV (R(sup 1) and R(sup 2) are lower alkyl), cyclizing the compound by treating with polyphosphoric acid, etc., and finally treating the cyclized compound with a halogenation reagent.

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